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DIAXX-4, The Pentagon
Washington 25, D. C.
15 March 1967

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We would like you to submit a proposal for our consideration whose purpose is to develop a production-type technique for producing diffraction gratings of the type used in the Direct Image Viewer. This viewer and the associated grating specifications are described in four attached documents listed at the end of this letter. The technique for making the gratings is to be based on the technology developed in the Exploratory Development Laboratory: photographic or glass-etched techniques are equally acceptable, although the latter (because of its permanence) is preferred. Suitably captioned photographs of the special equipment necessary for the glass etching also form part of the attachments to this letter.

Two considerations are paramount: 1) meeting acceptable optical specifications (and these can be subsequently modified or changed as you see fit in your proposal considerations), and 2) performing the required development tasks in as short a time as possible. The specification of an incentive fee should be based on these two considerations. The aim here is to produce at least one acceptable crossed diffraction grating and a production capability for as many more as the customer deems necessary.

You are requested to forward this proposal as soon as possible. Members of the Exploratory Development Laboratory who are most knowledgeable of the process will be made available to you to assist you in estimating time and materials and to divulge the various technological details if you require them.

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1. Documents Attached

1.1 Handbook for Direct Image Viewer

1.2 Direct Image Diffraction Viewer - Engineering and Design Report

1.3 Statement of Work for Bausch & Lomb, 25 August 1964, MSI-7506.03, Section 3.0, Requirements

1.4 Project # 99023-5, Report, June 1965, page 24, Requirements

1.5 Captioned Photographs of Equipment

1.6 The Phase Grating Program